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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,987	11/03/2003	Wing-Kee Philip Cho	025444.1059-US02	5359
26853 7590 12/13/2007 COVINGTON & BURLING, LLP ATTN: PATENT DOCKETING 1201 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20004-2401			EXAMINER SHEIKH, HUMERA N	
			ART UNIT 1615	PAPER NUMBER
			MAIL DATE 12/13/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/699,987

Applicant(s)

CHO, WING-KEE PHILIP

Examiner

Humera N. Sheikh

Art Unit

1615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 73,75,80,81,90,93-96,99,101,105-109 and 117-121 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 93-96,106-109,119 and 120 is/are allowed.
- 6) ☒ Claim(s) 73,75,80,81,90,99,101,105,117,118 and 121 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 09/27/07.
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date 08/23/07.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Status of the Application

Receipt of the Response to Non-Final Office Action, the Amendment, Applicant's Arguments/Remarks and the Information Disclosure Statement (IDS), all filed 09/27/07 is acknowledged.

Applicant has overcome the following rejection(s) by virtue of the amendment to the claims and/or submission of a Terminal Disclaimer and/or statement of common assignee/ownership: (1) The 35 U.S.C. double patenting rejection of claims 72-84, 89-90, 93-96, 99-109 and 116-120 over Cho (USPN 6,709,676) in view of Harris *et al.* (USPN 6,423,721) has been withdrawn; (2) The 35 U.S.C. §102(b) rejection of claims 72, 74, 76, 77, 79, 82, 83, 89, 99, 102-104, 117 and 118 over Aberg *et al.* (USPN 5,731,319) has been withdrawn; (3) The 35 U.S.C. §102(e) rejection of claims 72, 74, 76-79, 82-84, 89, 99, 100, 102-104 and 116-118 over Harris *et al.* (USPN 6,114,346) has been withdrawn; (4) The 35 U.S.C. §103(a) rejection of claims 72-84, 89-90, 99-100, 102-105 and 116-118 over Harris *et al.* (USPN 6,114,346) has been withdrawn; and (5) The 35 U.S.C. §103(a) rejection of claims 93-96, 101, 106-109 and 119-120 over Harris *et al.* (USPN 6,114,346) in view of Harris *et al.* (USPN 6,423,721) and further in view of Hellberg *et al.* (USPN 6,372,802) has been withdrawn.

Claims 73, 75, 80, 81, 90, 93-96, 99, 101, 105-109 and 117-121 are pending in this action. Claims 73, 75, 80, 81, 90, 99, 101, 105, 117 and 118 have been amended. New claim 121 has been added. Claims 1-72, 74, 76-79, 82-89, 91, 92, 97, 98, 100, 102-104 and 110-116

have been cancelled. Claims 73, 75, 80, 81, 90, 99, 101, 105, 117, 118 and 121 remain rejected.

Claims 93-96, 106-109, 119 and 120 are allowed.

* * * * *

Terminal Disclaimer

The terminal disclaimer filed on 09/27/07 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,709,676 has been reviewed and is accepted. The terminal disclaimer has been recorded.

* * * * *

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 73, 75, 80, 81, 90, 99, 101, 105, 117, 118 and 121 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aberg *et al.* (hereafter “Aberg”) (U.S. Pat. No. 5,731,319) in view of Hellberg *et al.* (hereafter “Hellberg”) (U.S. Pat. No. 6,372,802).

Aberg *et al.* ('319) teach methods and compositions for the treatment of allergic rhinitis comprising descarboethoxyloratadine – “DCL” (desloratadine) that avoids adverse side effects associated with other non-sedating antihistamines (see Abstract); (col. 3, line 21 – col. 4, line 21). The descarboethoxyloratadine daily dose range is from about 0.1 mg to less than about 10 mg, administered orally in single or divided doses (col. 8, lines 30-41). (This range encompasses and meets Applicant’s range of “about 2.5 mg” and “about 5 mg” desloratadine of instant claims 90 & 105). Suitable antioxidants (*i.e.*, organic acids) are disclosed at column 9, lines 12-30. The compositions can also include starches, sugars, microcrystalline cellulose, diluents, granulating agents, lubricants, binders, disintegrating agents and the like (col. 9, lines 31-39). Solid oral dosage forms such as tablets are preferred (col. 9, line 40 – col. 10, line 13).

With regards to the claim limitation of the “total amount of desloratadine degradation products being less than or equal to 2% by weight”, it is the position of the Examiner that Aberg recognizes and teaches the use of the same acids as claimed by Applicant, which would also be fully effective in protecting desloratadine from the formation of degradation products; thus the total amount of degradation products of the prior art formulation would be minimal. Moreover, Applicant has not established criticality of the claimed amounts of degradation products, nor have any unexpected results been observed through the claimed amounts.

With respect to the claimed amounts of antioxidants, the Examiner points out that generally, differences in concentration will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration is critical. “[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

With regards to the claimed dissolution of desloratadine, being “at least 80% desloratadine dissolved in a 0.1N HCL solution at 37°C in about 45 minutes”, this dissolution rate limitation is not explicitly disclosed by Aberg. However, the determination of a suitable or effective rate of dissolution is within the level of one of ordinary skill in the art, obtained through routine or manipulative experimentation to obtain optimal results. Absent a showing of evidence to the contrary, the claimed dissolution rate, would be obvious to one of ordinary skill in the art given the explicit teachings of Aberg. Furthermore, no unexpected or superior results have been demonstrated through Applicant’s claimed desloratadine dissolution rate.

Aberg do not teach edetate disodium.

Hellberg *et al.* ('802) teach methods and compositions for treating allergic diseases such as allergic rhinitis or sinusitis comprising disulfide derivatives (Abstract); (col. 3, lines 40-54). Conventional excipients that are added to the composition are chelating agents or stabilizers. Edetate disodium is disclosed as the suitable chelating agent or stabilizer (col. 3, lines 1-23). Active ingredients disclosed include antihistamines, such as desloratadine (col. 3, lines 24-39). Administration forms comprise oral dosage forms such as tablets (col. 2, lines 43-51).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate conventional chelating agents or stabilizing agents, such as edetate disodium as taught by Hellberg *et al.* within the formulations of Aberg *et al.* One of ordinary skill in the art would do so because Hellberg *et al.* explicitly teach the use of conventional excipients such as chelating or stabilizing agent and particularly teach edetate disodium as an effective and suitable chelating/stabilizing agent, useful for protecting against any degradation products. The expected result would be an enhanced dosage form and composition for combating allergic disorders and diseases.

Thus, given the teachings of Aberg and Hellberg, the instant invention, when taken as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments, see pages 7-9, filed 09/27/07, with respect to claims 72-84, 89-90, 93-96, 99-109 and 116-120 have been fully considered and are persuasive. The rejection of claims 72-84, 89-90, 93-96, 99-109 and 116-120 has been withdrawn.

However, a 35 U.S.C. §103(a) rejection of claims 73, 75, 80, 81, 90, 99, 101, 105, 117, 118 and 121 over Aberg ('319) in view of Hellberg ('802) has been applied in view of the amendment to the claims.

Aberg teach methods and compositions for the treatment of allergic rhinitis comprising descarboethoxyloratadine. Aberg also discloses the incorporation of suitable antioxidants at column 9, lines 12-30. The compositions can also include starches, sugars, microcrystalline

cellulose, diluents, granulating agents, lubricants, binders, disintegrating agents and the like (col. 9, lines 31-39). Solid oral dosage forms such as tablets are preferred (col. 9, line 40 – col. 10, line 13). Hellberg are further relied upon for the teaching of the inclusion of edetate disodium as the suitable chelating agent or stabilizer. Hence, the instant invention, when taken as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Allowable Subject Matter

Claims 93-96, 106-109, 119 and 120 are allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

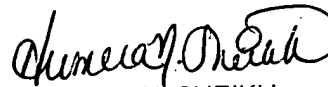
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Humera N. Sheikh whose telephone number is (571) 272-0604. The examiner can normally be reached on Monday, Tuesday, Thursday and Friday during regular business hours. (Wednesdays - Telework).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


HUMERA N. SHEIKH
PRIMARY EXAMINER

Art Unit 1615

December 10, 2007

hns